

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P450617

Luminaire Tested: **GALN-SA1B-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3359 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



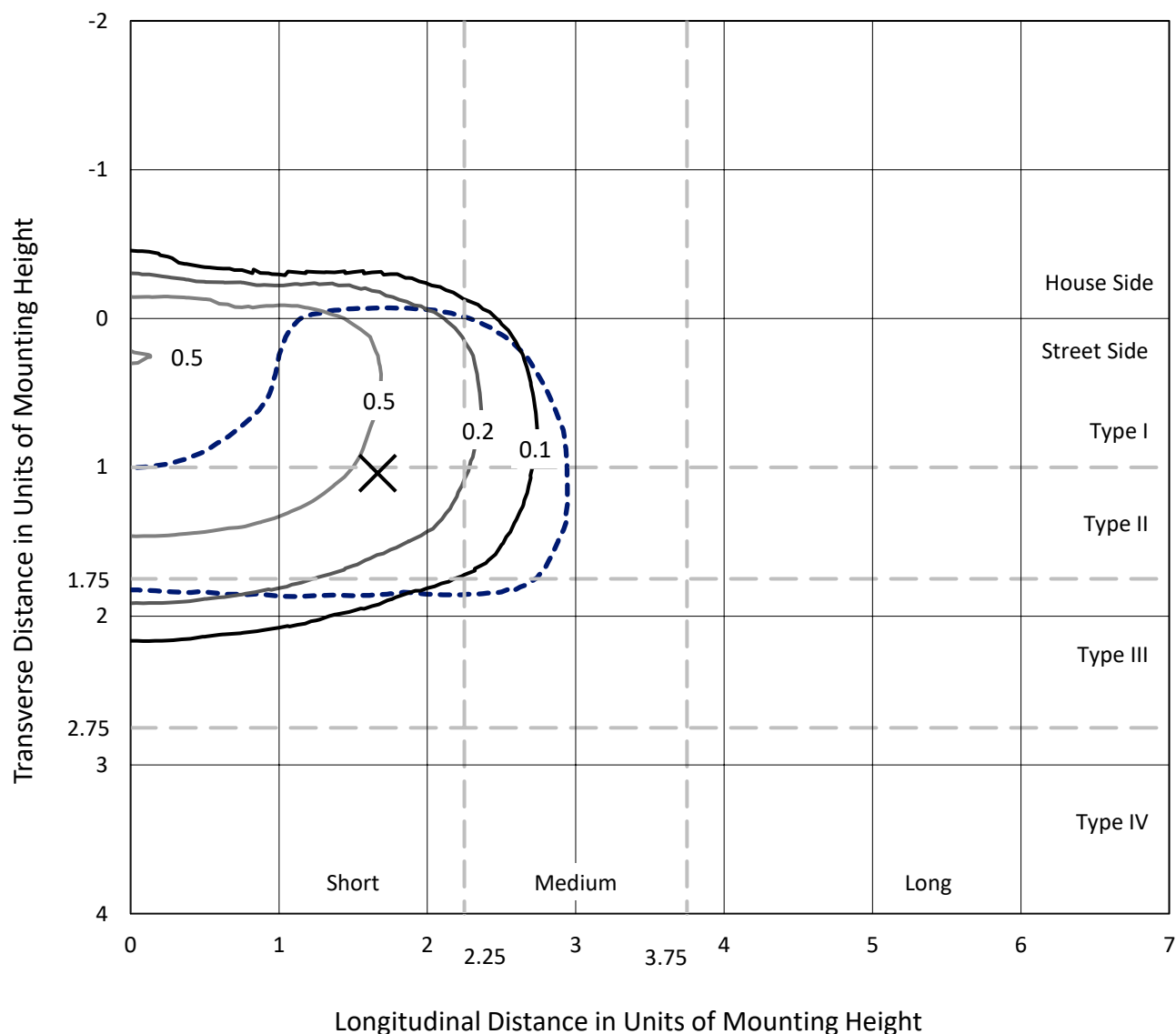
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



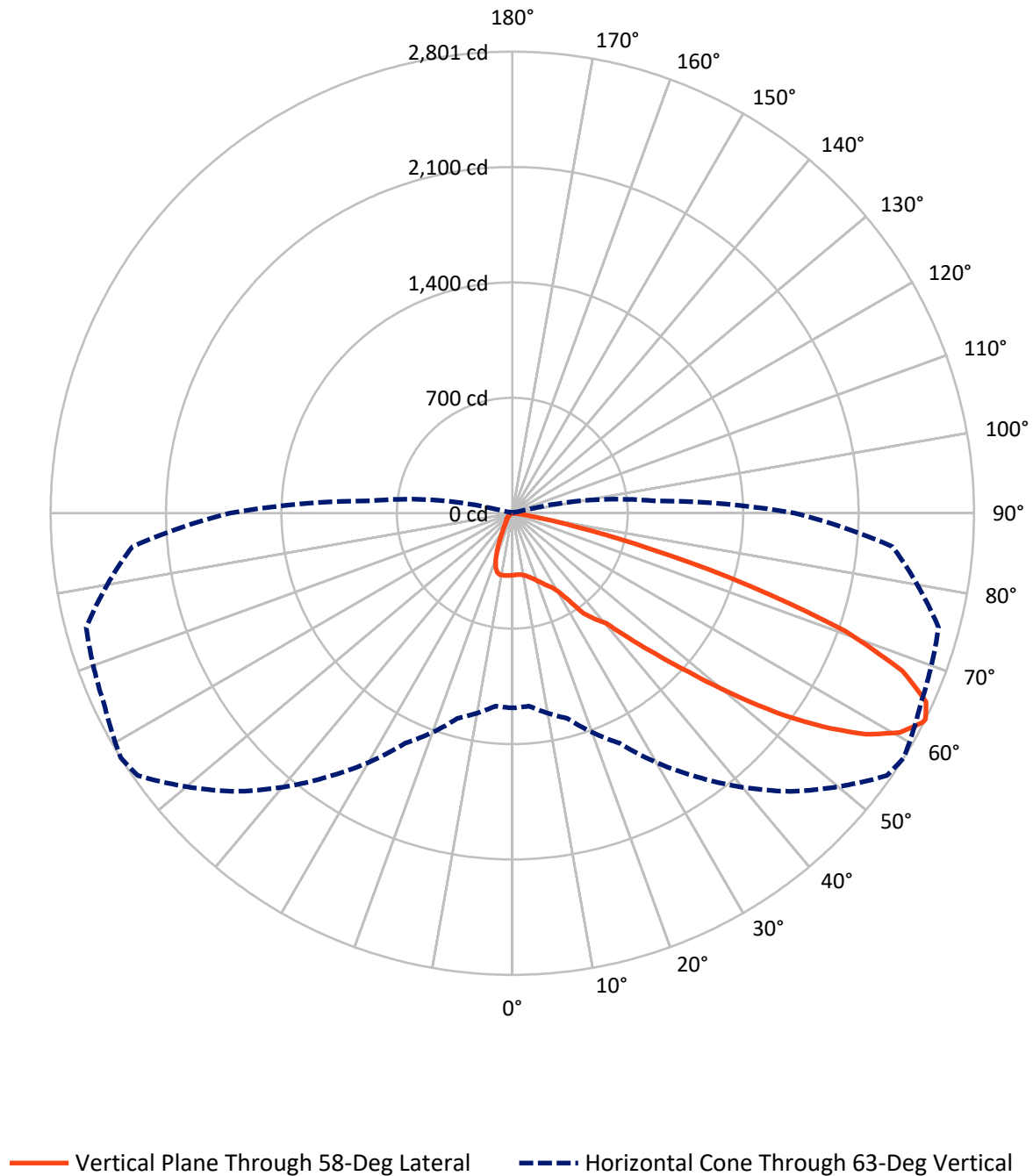
Based on 25 foot mounting height. Maximum calculated value = 0.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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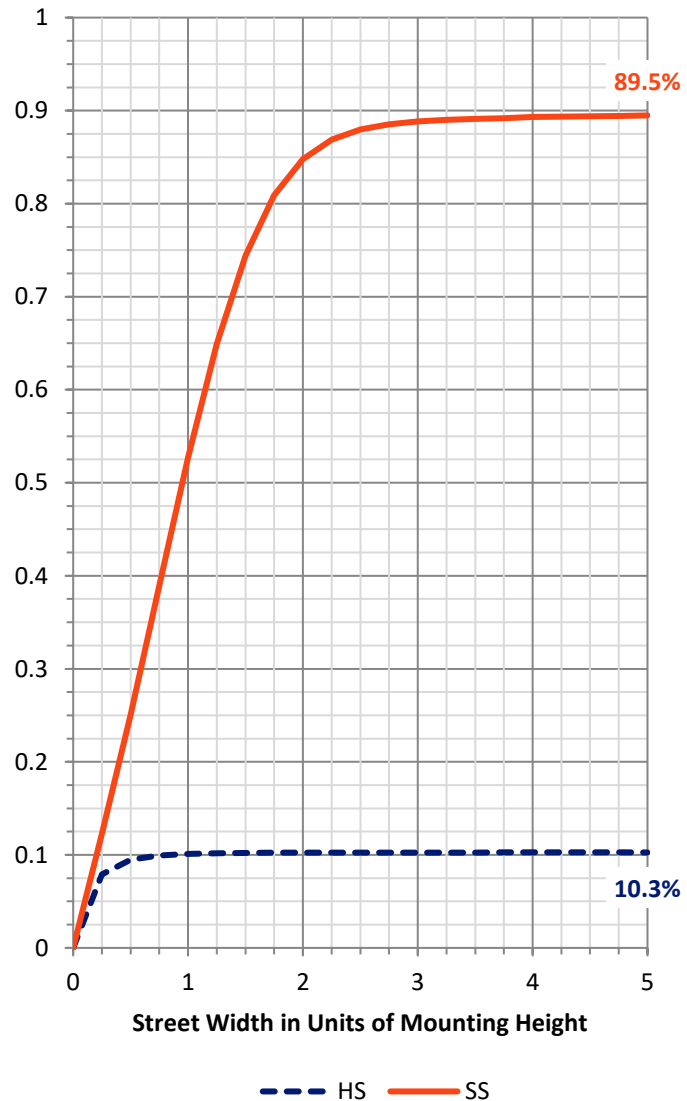
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	347.8	0.0	347.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3011.2	0.0	3011.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	3359.0	0.0	3359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	1.0
10°-20°	95.9	2.9
20°-30°	166.4	5.0
30°-40°	305.8	9.1
40°-50°	575.7	17.1
50°-60°	984.6	29.3
60°-70°	942.8	28.1
70°-80°	240.4	7.2
80°-90°	12.3	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3359.0	100.0
0°-180°	3359.0	100.0

Coefficient of Utilization



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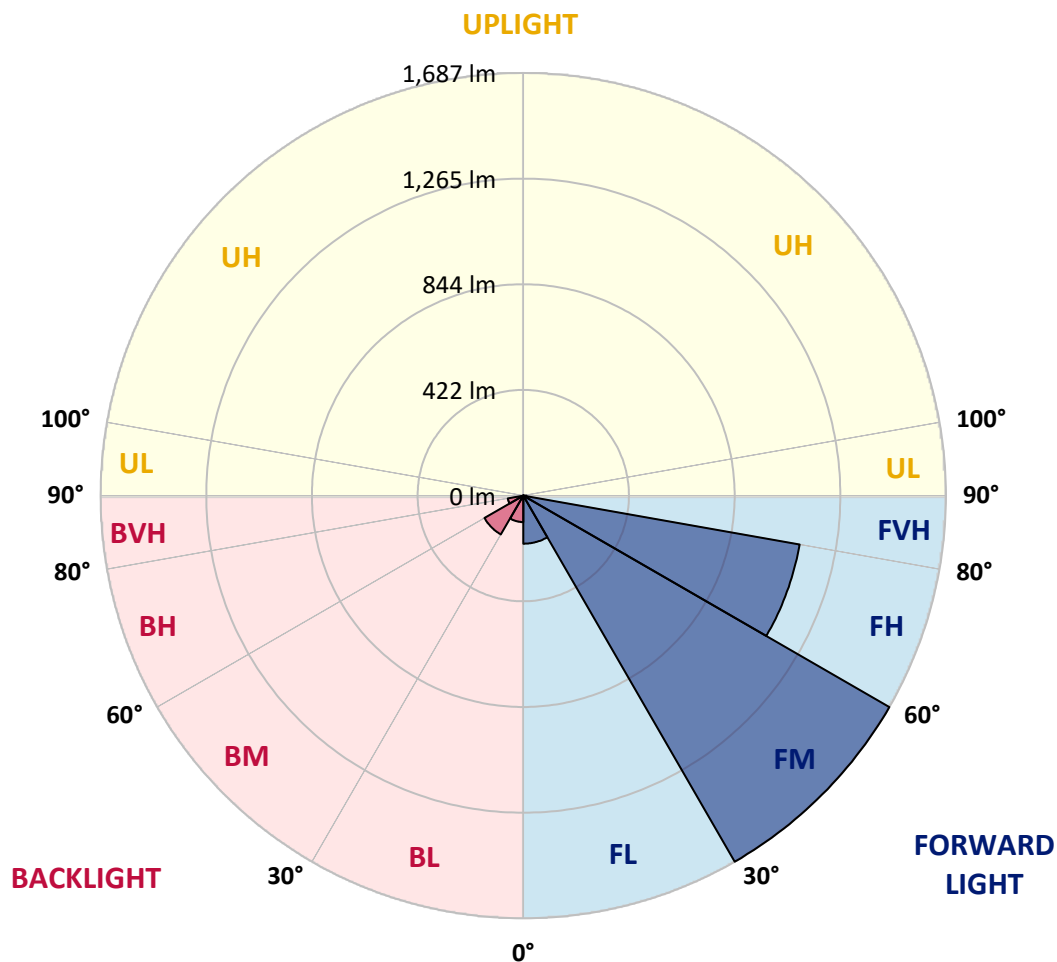
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	192.0	5.7			
FM	(30°-60°)	1687.2	50.2			
FH	(60°-80°)	1120.2	33.3			G1/1800
FVH	(80°-90°)	11.8	0.4			G1/100
BL	(0°-30°)	105.5	3.1	B0/110		
BM	(30°-60°)	178.9	5.3	B0/220		
BH	(60°-80°)	63.0	1.9	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1
2.5°	366.7	368.0	369.2	369.7	371.5	373.3	374.5	374.3	376.3	377.3	377.3
5°	352.0	352.0	355.3	358.4	363.4	368.5	373.3	374.3	378.1	381.6	382.9
7.5°	339.6	340.4	342.9	348.5	355.3	364.2	373.8	376.1	382.6	390.5	393.8
10°	333.8	334.3	337.6	343.4	352.0	364.2	377.6	381.9	392.0	404.4	408.9
12.5°	332.6	333.3	336.6	343.2	353.0	367.7	385.9	390.5	405.1	421.1	427.9
15°	334.8	335.3	338.6	345.7	356.6	374.0	397.0	403.4	420.8	439.3	448.1
17.5°	342.9	342.4	344.7	350.5	362.6	381.9	410.4	418.0	438.5	463.8	469.6
20°	377.3	374.0	372.0	366.9	371.8	393.0	426.6	437.8	463.0	488.8	492.9
22.5°	451.4	444.1	429.7	409.9	394.8	408.2	446.1	459.0	491.6	516.9	516.9
25°	545.7	536.4	522.0	479.0	441.8	433.2	468.1	484.3	522.7	548.3	539.9
27.5°	663.8	656.5	628.4	578.4	521.5	477.0	493.6	508.6	550.3	581.1	563.7
30°	759.9	756.4	733.4	688.6	625.9	560.9	541.2	551.1	587.0	622.6	604.7
32.5°	841.1	841.1	817.6	775.9	717.2	659.5	621.9	628.9	663.3	704.6	671.2
35°	930.4	927.4	908.4	868.7	802.9	752.1	736.7	746.3	777.4	808.0	725.8
37.5°	1024.2	1023.2	1003.5	965.0	911.4	847.4	811.3	813.8	829.7	848.5	789.8
40°	1126.1	1127.7	1101.9	1078.1	1027.5	962.0	892.7	876.8	891.7	944.6	907.9
42.5°	1246.5	1243.0	1231.8	1199.5	1158.8	1119.6	1036.4	1030.5	1043.7	1100.3	1060.6
45°	1386.4	1391.4	1372.2	1354.2	1326.9	1294.3	1224.8	1214.6	1229.1	1317.1	1260.7
47.5°	1526.5	1521.7	1534.1	1530.8	1545.4	1521.2	1459.7	1439.0	1473.6	1557.1	1474.1
50°	1633.2	1638.5	1664.3	1702.0	1764.9	1778.6	1719.7	1712.6	1728.0	1781.6	1665.1
52.5°	1702.5	1720.2	1760.6	1857.5	1971.1	2059.3	2014.6	2010.8	2004.4	2018.9	1847.6
55°	1747.7	1765.7	1818.6	1961.2	2156.7	2300.1	2302.3	2286.2	2244.4	2234.1	2018.3
57.5°	1719.9	1723.5	1798.8	1989.5	2259.6	2471.8	2546.1	2529.9	2452.8	2413.6	2169.1
60°	1545.9	1553.3	1658.2	1882.3	2214.8	2527.9	2707.7	2700.4	2615.9	2571.7	2286.4
62.5°	1237.7	1258.9	1366.9	1616.7	2006.7	2433.3	2773.2	2794.0	2728.2	2667.3	2323.3
63°	1181.0	1174.2	1288.2	1539.4	1951.6	2386.6	2774.2	2800.5	2733.3	2676.4	2313.2
65°	874.3	894.7	968.8	1213.9	1624.1	2168.8	2711.8	2758.3	2714.6	2636.2	2201.2
67.5°	490.9	489.9	571.8	794.3	1136.8	1701.2	2452.1	2550.4	2541.3	2365.6	1824.6
70°	240.2	244.0	277.7	411.7	659.3	1173.7	2037.6	2143.8	2147.1	1858.0	1261.7
72.5°	108.7	110.5	134.5	200.5	338.9	624.9	1404.1	1505.5	1486.8	1184.0	696.7
75°	57.4	61.2	74.1	100.9	163.4	257.7	763.7	861.9	822.7	540.9	256.4
77.5°	42.5	43.8	50.3	64.2	87.5	100.4	329.5	392.0	367.2	195.7	85.0
80°	31.1	32.1	37.4	45.5	55.1	51.1	124.2	142.4	127.7	66.5	26.0
82.5°	19.0	19.2	27.3	33.9	34.6	28.6	41.0	44.0	46.0	37.4	14.2
85°	6.8	8.6	18.5	24.5	20.5	14.4	17.2	19.0	20.7	23.8	8.3
87.5°	0.8	1.0	8.9	11.9	5.8	5.3	6.3	7.1	7.6	8.9	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1
2.5°	378.3	379.3	378.6	377.3	377.1	376.3	374.8	374.8	374.8	375.3	374.8
5°	383.9	384.7	382.9	380.4	377.6	374.0	370.2	368.0	367.7	367.2	365.9
7.5°	394.5	395.5	391.5	385.4	377.8	369.2	361.1	353.5	350.0	347.2	347.2
10°	409.9	411.0	402.9	392.0	376.8	359.4	340.1	322.7	309.0	302.7	301.2
12.5°	428.4	428.9	415.5	396.5	371.5	337.9	296.9	258.7	232.2	220.0	218.8
15°	448.6	445.1	427.4	398.3	356.3	293.6	222.8	176.0	148.4	140.4	143.4
17.5°	469.1	462.5	436.5	395.5	322.2	222.8	149.7	120.1	111.5	109.3	109.3
20°	488.3	479.2	443.1	383.4	263.0	153.5	111.0	103.9	102.4	100.9	101.2
22.5°	507.6	493.6	448.9	356.3	196.0	109.8	99.4	97.1	95.1	93.1	92.8
25°	526.3	507.1	451.2	306.3	133.5	94.3	90.8	87.8	83.7	81.4	80.9
27.5°	545.7	523.2	449.6	243.0	97.4	84.5	80.9	76.6	71.8	67.8	67.8
30°	583.2	554.1	444.3	174.7	81.9	74.4	69.8	63.0	57.7	53.6	53.4
32.5°	634.3	594.3	426.1	122.9	72.8	65.5	58.7	51.1	45.5	42.5	42.5
35°	679.8	634.8	392.0	90.5	65.5	56.9	48.6	41.2	36.9	34.9	34.1
37.5°	749.1	693.9	344.9	73.6	58.4	49.3	40.7	33.9	30.3	28.8	28.8
40°	853.0	766.3	287.3	64.5	51.6	42.0	33.9	28.6	25.8	24.0	24.0
42.5°	982.0	854.8	228.9	57.9	45.3	36.2	28.3	24.3	21.7	20.5	20.2
45°	1144.3	948.1	176.3	51.8	40.2	30.9	24.0	20.5	18.0	17.2	17.4
47.5°	1313.8	1030.3	136.6	46.5	34.9	26.0	20.5	17.7	15.9	14.9	14.9
50°	1458.4	1086.9	103.7	40.5	30.9	22.0	18.0	15.9	14.4	13.9	13.7
52.5°	1579.3	1103.4	79.4	35.2	27.1	19.0	15.9	14.4	13.2	12.4	12.4
55°	1682.2	1089.0	62.2	29.6	22.8	16.4	14.2	12.9	11.4	10.6	10.4
57.5°	1742.4	1042.7	47.5	24.5	18.5	13.7	12.4	10.9	9.1	7.8	7.8
60°	1772.8	975.4	36.4	20.2	14.2	10.9	10.1	8.1	6.3	5.3	5.1
62.5°	1736.4	886.1	27.6	15.9	10.6	8.1	6.8	5.8	4.0	3.0	3.0
63°	1713.9	860.3	26.6	15.2	9.9	7.6	6.3	5.3	3.5	2.8	2.5
65°	1562.4	747.8	21.7	12.1	7.8	5.3	4.3	3.8	2.5	1.3	1.0
67.5°	1240.7	572.0	17.2	9.1	5.6	3.8	2.5	2.3	0.8	0.0	0.0
70°	838.8	369.5	13.4	6.6	3.8	2.3	1.3	1.0	0.3	0.0	0.0
72.5°	437.5	189.4	10.4	4.8	2.3	1.5	0.8	0.3	0.0	0.0	0.0
75°	154.8	64.5	7.6	3.0	1.5	0.8	0.3	0.0	0.0	0.0	0.0
77.5°	46.8	24.0	4.8	2.3	1.0	0.5	0.0	0.0	0.0	0.0	0.0
80°	16.4	8.9	2.8	1.5	0.8	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.1	4.3	1.8	1.3	0.8	0.3	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.8	1.5	1.3	0.8	0.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	2.0	1.5	1.3	1.0	0.5	0.3	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)